WHAT IS CLAIMED IS:

1. An apparatus which detects a position of a target mark included in an object, comprising:

a unit which senses an image of the object;

- a unit which extracts a first mark and feature of a region outside of the first mark in the image; and
 - a unit which selects a second mark different from the target mark as a new target mark based on the position of the first mark and the feature.
- 2. An apparatus according to claim 1, wherein the feature corresponds to an auxiliary mark, which is included in the object and associated with the first mark.
- 3. An apparatus according to claim 2, wherein a plurality of the first marks have different auxiliary marks, respectively.
 - 4. An apparatus according to claim 2, wherein the auxiliary mark is connected to the first mark.
- 5. An apparatus according to claim 2, wherein the 20 auxiliary mark is surrounded by the first mark.
 - 6. An apparatus according to claim 1, wherein the feature corresponds to a positions of the first mark relative to another mark extracted by said extraction unit.
- 7. An apparatus according to claim 1, wherein the feature corresponds to a position of the first mark relative to a plurality of marks extracted by said

extraction unit.

5

10

15

20

- 8. An apparatus according to claim 1, wherein said selection unit selects the second mark as the new target mark from a plurality of marks extracted by said extraction unit.
- 9. An apparatus according to claim 8, wherein said selection unit selects the second mark as the new target mark based on a signal of the second mark.
- 10. An apparatus according to claim 1, wherein the object is a substrate on which a device is to be formed.
 - 11. An apparatus according to claim 10, further comprising a stage unit which positions the substrate.
 - 12. An apparatus according to claim 11, further comprising a unit which controls positioning of the substrate by said stage unit based on the position of the target mark.
 - 13. An apparatus according to claim 1, wherein the object is a first substrate on which a device is to be formed, and a mark corresponding to the second mark is initially selected as the target mark with respect to a subsequent substrate in a lot including the first substrate.
 - 14. An apparatus which exposes a substrate to radiant energy, comprising:
- 25 a stage unit which positions the substrate;
 - a unit which senses an image of the substrate;
 - a unit which extracts a first mark and feature of

a region outside of the first mark in the image;

a unit which selects a second mark different from the target mark as a new target mark based on the position of the first mark and the feature: and

a unit which controls said stage unit so as to position the substrate based on the position of the target mark.

15. A method of detecting a position of a target mark
10 included in an object, comprising steps of:

sensing an image of the object;

extracting a first mark and feature of a region outside of the first mark in the image; and

selecting a second mark different from the target mark as a new target mark based on the position of the first mark and the feature.

16. A method of manufacturing a device, comprising steps of:

sensing an image of a substrate;

20 extracting a first mark and feature of a region outside of the first mark in the image; and

selecting a second mark different from the target mark as a new target mark based on the position of the first mark and the feature; and

transferring a pattern concerning the device to the substrate based on the position of the target mark.